**\*\* FUTURE WV Flood Tool Enhancements \*\***(December 15, 2017)

**FLOOD ZONES**

* Flood Results Query Panel - Orange Color Status Condition: Add location within “Updated AE Floodplain Boundary”
* Flood Results Query Panel - Yellow Status Condition: Add location within “500-year Floodplain Boundary”. Currently the WV Flood Tool does not incorporate NFHL Moderate Flood Risk Zones (Shaded X, B zones)
* Cartography Enhancements: Update flood zone symbolization to align more with NFHL layers. Emphasize floodway on all views, add 500-year floodplains to Expert and RiskMAP Views. Align with NFHL symbols but use WV Flood Tool color “red” instead of NFHL blue for 100-year flood zones (AE’s and approximate A’s.)
* Cartography Enhancement: Add readable symbols for community layer and add CID labels associated with NFHL community layer (S\_Pol\_AR).

**FLOOD HEIGHTS**

* Flood Results Query Panel - Add “Base Flood Elevation” values from Upper Mon. Watershed restudy. Add disclaimer.
* Update Flood Height messages for Advisory Flood Heights and Non-Restudy AE Zones.
* Data Enhancement: Add new statewide composite Advisory Flood Height layer at 5-ft cell resolution. Current Advisory Flood Height (AFH) grid is 10-ft resolution.

 **DEPTH GRIDS**

* Data Enhancement: Add a statewide composite depth grid of 5-ft cell resolution that incorporates all depth grids from Restudies, Advisory A, and Updated AE
* Data Enhancement: Add USGS flood inundation depth grids from high water marks/terrain for 2016 flood areas to RiskMAP View

**OTHER FLOOD-RELATED LAYERS**

* Update schema and workflow for various layers of Flood Query Results Panel. Layers include Stream name, HEC-RAS models, flood profiles, NFHL Community Layer, NFHL Panel Index, 75-ft floodplain boundary buffer, etc.
* Add community identifier information to Flood Results Query Panel. Include CID, CRS Level, and CRS effective data.
* Add Advisory A and Updated Floodplain Boundary vector reference layers to Expert and RiskMAP layers

**GROUND ELEVATION**

* Ground Elevation: Add a newer statewide ground elevation that is a combination of SAMS and higher-resolution LiDAR elevation sources. Create an ancillary layer that displays elevation source information.
* Flood Elevation Certificates: Conduct a pilot study that generates a GIS layer for elevation certificates similar to how the LOMAs layer is displayed on the WV Flood Tool.
* Coordinate elevation sources and DEMs with Tucker’s group to avoid duplicative efforts. Also Tucker can provide extents of panel revision updates for Restudy counties.

**PARCELS REFERENCE LAYER**

* Parcels: Add publicly-available parcels for 19 counties in WV Flood Tool. Coordinate with Melanie Thomas and Kevin Sneed.